

Abstract

A temperature control device whose heat conduction properties such as heat homogeneity, responsiveness and the like is fabricated by improving flatness.

In a method of fabricating a temperature control device (1) equipped with a temperature control element (2) configured by soft soldering a thermionic element (9) between the opposed electrodes (7) and (8) and a pair of heat conduction plates (3) and (4) disposed respectively on outside surfaces of respective insulating substrates (5) and (6) of the relevant temperature control device as well as electrodes (7) and (8) are formed respectively on opposing surfaces of a pair of insulating substrates (5) and (6) disposed in opposed positions, the heat conduction plate 4 is disposed on the outside surface of the insulating substrate 6 after soft soldering of the thermionic element 9 is performed, the insulating substrate 6 has the flexibility, in the soft soldering of the thermionic element 9, the soft solder 12a mixed with copper powder which is a layer thickness control member is used, and the soft soldering is carried out while adding the predetermined pressure.